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(71) Applicant: **MATEER-BURT COMPANY, INC.**
436 Devon Park Drive
Wayne Pennsylvania 19087(US)

(72) Inventor: **Izzi, Anthony**
6 Hillbrook Circle
Malvern PA. 19355(US)

(72) Inventor: **McDonald, John J.**
311 Douglas Drive
West Chester PA. 19380(US)

(72) Inventor: **Parker, William B.**
6 Avignon Arbordeau
Devon PA. 19333(US)

(72) Inventor: **Famous, Robert K.**
33 West Mt. Kirk Avenue
Norristown PA. 19403(US)

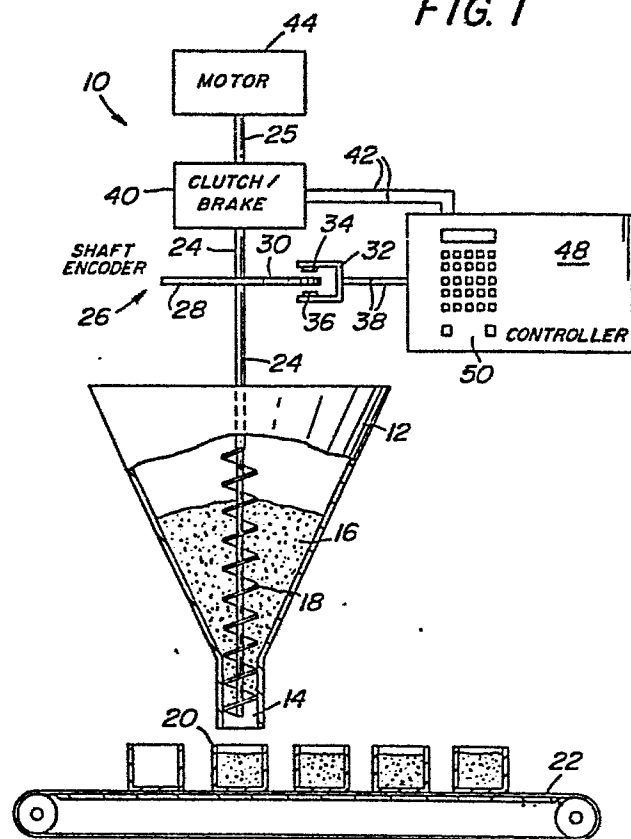
(72) Inventor: **Nakajima, Yoshio**
Plymouth Hill 101N
Plymouth Meeting PA. 19462(US)

(74) Representative: **Thomson, Roger Bruce et al,**
POLLAK MERCER & TENCH High Holborn House 52-54
High Holborn
London WC1V 6RY(GB)

(54) Control apparatus for and method of operating automatic filling machine.

(57) A control apparatus for a filling machine of the type employing a hopper (12) and rotary feed auger (18) determines the exact number of auger revolutions required to deliver a preselected weight of material (16) to be dispensed by weighing the volume of material delivered by a given number of auger revolutions and computing the ratio of the number of auger revolutions to the weight of the volume delivered. The ratio is then divided into the desired weight to determine the actual number of auger revolutions required to deliver the desired weight. The control apparatus also measures the amount of rotation of the rotary auger (18) after the auger is braked at the end of each fill cycle and increments or decrements a preselected set point number of auger revolutions, depending upon whether the actual number of auger revolutions is greater than or less than the set point, to compensate for auger rotation after braking.

FIG. 1





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
A, D	US-A-3 743 140 (SAUERBREY C.A.) * Columns 5,6; figures *	1-8	B 65 B 1/12 B 65 B 1/32
A	CH-A- 595 241 (S.I.G.) * Columns 3,4; figure 1 *		
A	US-A-3 073 400 (BAUDER U. et al.) * Column 2, lines 12-45; figure 1 *		
			TECHNICAL FIELDS SEARCHED (Int. Cl. 3)
			B 65 B G 01 F G 01 G
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 25-10-1985	Examiner GRENTZIUS W.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			